

STAT3/HDAC-IN-2

Chemical Properties

CAS No. :

Formula: C₂₈H₃₂N₂O₇

Molecular Weight: 508.56

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	STAT3/HDAC-IN-2 (compound 18), a dual inhibitor of STAT3 and HDAC, promotes autophagy and apoptosis. This compound features an amphiphilic hydroxamic acid hybrid structure, derived from the natural product isopropanol lactone (IAL), and functions as a nanoscale anticancer agent. It has the ability to self-assemble into nanoparticles in aqueous environments, leading to enhanced tumor tissue accumulation, increased cellular uptake, and improved anticancer efficacy compared to its free state.
Targets(IC50)	HDAC,STAT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9663 mL	9.8317 mL	19.6634 mL
5 mM	0.3933 mL	1.9663 mL	3.9327 mL
10 mM	0.1966 mL	0.9832 mL	1.9663 mL
50 mM	0.0393 mL	0.1966 mL	0.3933 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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